

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P227316

Luminaire Tested: **ISW-AF-450-LED-E1-SLR-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227316
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35948)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISW-AF-450-LED-E1-SLR-8030
Description: IMPACT ELITE LED WEDGE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2207.4 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U1 - G1

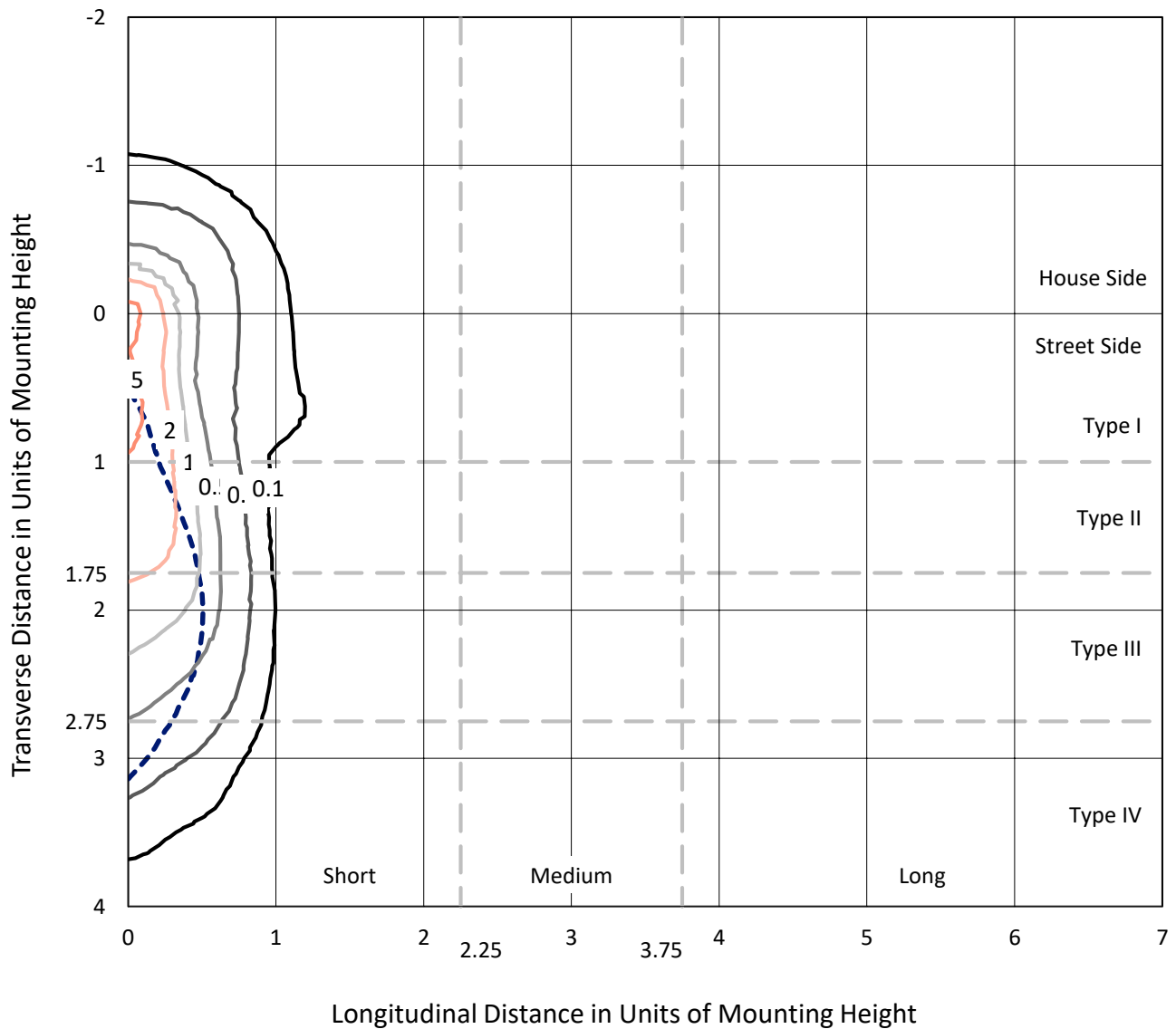
Input Watts (W): 25.31
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

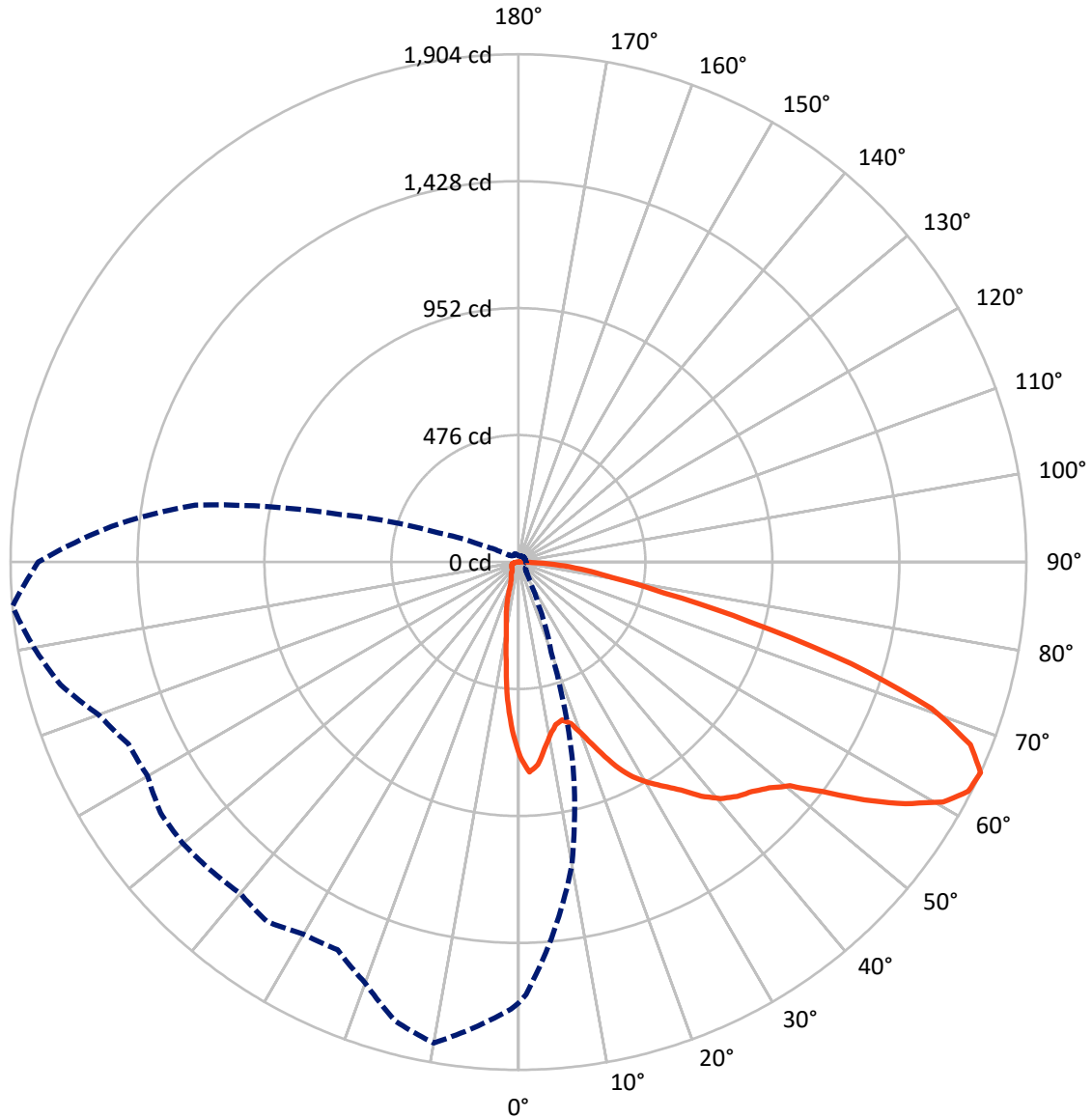
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 275-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	378.6	0.0	378.6
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	1828.7	0.1	1828.7
	% Fixture	82.8	0.0	82.8
Total	Lumens	2207.3	0.1	2207.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.0	2.4
10°-20°	104.0	4.7
20°-30°	148.2	6.7
30°-40°	215.0	9.7
40°-50°	307.6	13.9
50°-60°	472.3	21.4
60°-70°	546.7	24.8
70°-80°	278.9	12.6
80°-90°	80.5	3.6
90°-100°	0.1	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2207.3	100.0
0°-180°	2207.4	100.0



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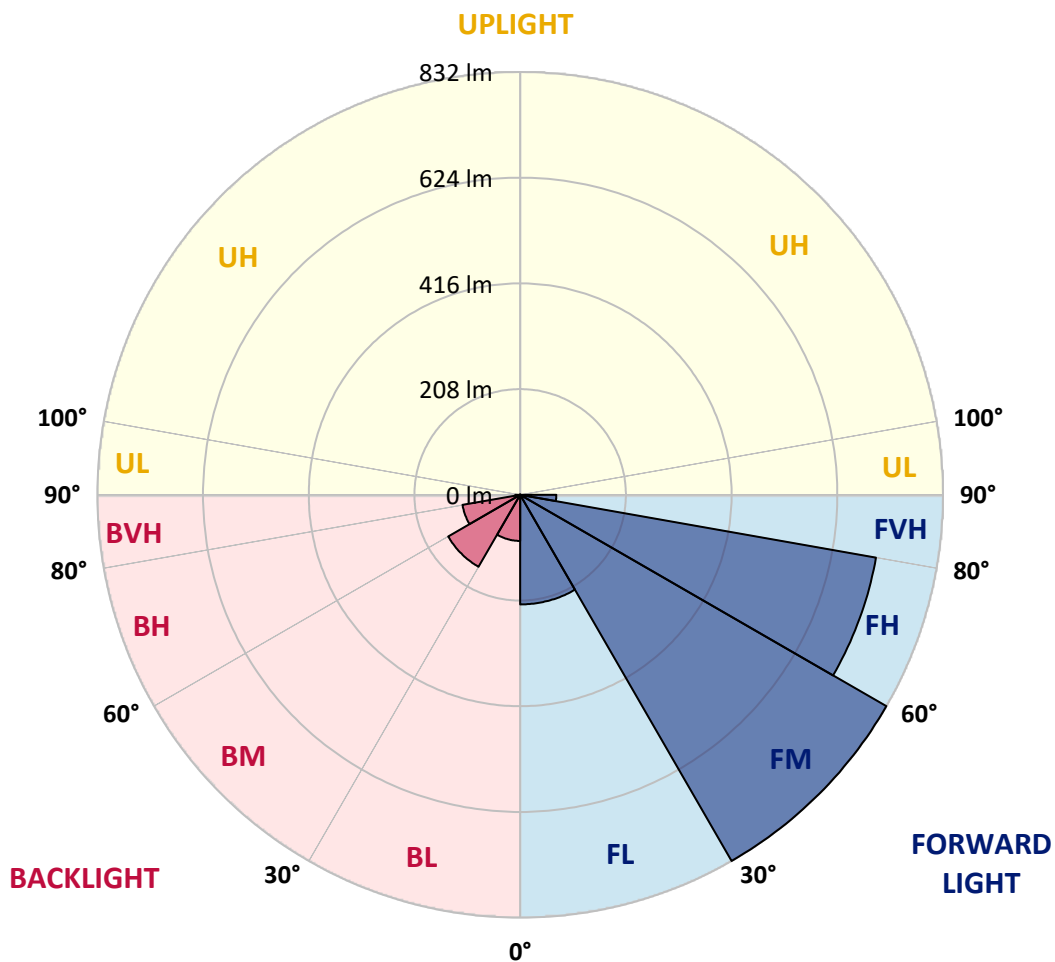
CATALOG NUMBER: ISW-AF-450-LED-E1-SLR-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	215.6	9.8			
FM	(30°-60°)	831.5	37.7			
FH	(60°-80°)	710.4	32.2			G1/1800
FVH	(80°-90°)	71.1	3.2			G1/100
BL	(0°-30°)	90.6	4.1	B0/110		
BM	(30°-60°)	163.5	7.4	B0/220		
BH	(60°-80°)	115.2	5.2	B1/500		G1/500
BVH	(80°-90°)	9.4	0.4			G0/10
UL	(90°-100°)	0.1	0.0		U1/10	
UH	(100°-180°)	0.0	0.0		U1/10	

BUG Rating: B1-U1-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	10°	15°	20°	25°	30°	35°	40°	45°
0°	729.2	729.2	729.2	729.2	729.2	729.2	729.2	729.2	729.2	729.2	729.2
2.5°	754.9	750.4	744.8	735.2	726.6	714.4	711.4	696.2	686.5	688.7	671.3
5°	708.8	706.2	692.5	670.9	656.8	628.9	613.0	604.8	581.8	578.8	572.5
7.5°	644.2	636.4	614.1	587.3	563.2	542.7	517.1	497.4	480.0	469.2	450.2
10°	588.8	580.6	556.5	523.8	494.8	466.2	445.4	419.8	394.9	375.6	360.3
12.5°	562.1	553.1	524.9	487.0	454.7	419.0	389.7	364.4	350.7	341.0	328.4
15°	572.5	559.5	525.7	480.3	440.2	402.3	371.1	344.0	327.7	312.8	297.9
17.5°	614.4	598.5	559.8	505.2	449.5	400.5	355.9	325.1	299.0	276.8	256.7
20°	686.5	674.6	618.5	542.0	469.6	401.6	342.9	302.4	270.8	242.6	215.8
22.5°	770.8	753.0	698.0	591.8	495.2	408.3	334.7	283.4	245.9	208.0	179.1
25°	859.3	845.5	772.7	658.7	534.6	422.0	328.4	266.7	216.6	174.6	142.7
27.5°	930.6	918.3	846.3	722.9	570.6	433.9	319.1	250.8	193.2	142.7	107.4
30°	988.9	978.5	903.1	775.7	614.4	438.0	306.1	232.2	167.2	115.2	88.8
32.5°	1054.3	1042.8	957.7	812.4	634.1	434.3	291.2	214.7	146.4	101.8	76.2
35°	1126.0	1112.6	1018.6	852.2	650.5	421.3	278.6	202.1	136.3	92.5	67.6
37.5°	1189.9	1181.3	1073.6	891.6	669.1	399.7	266.4	188.3	129.6	85.8	60.9
40°	1239.7	1237.4	1134.5	924.3	683.5	384.1	256.3	177.6	121.1	83.2	58.7
42.5°	1279.8	1279.0	1184.3	953.6	687.3	370.4	248.5	167.9	113.3	76.9	59.8
45°	1318.4	1318.0	1232.6	994.5	689.9	371.1	242.6	162.0	106.6	72.8	56.5
47.5°	1355.2	1360.8	1283.1	1051.3	717.3	383.7	240.4	156.4	101.4	68.4	53.5
50°	1416.9	1411.3	1363.0	1128.2	761.6	408.3	236.6	151.6	96.6	64.3	50.5
52.5°	1533.9	1527.6	1484.5	1231.1	809.8	433.5	231.8	144.9	91.0	59.8	47.2
55°	1676.9	1685.4	1625.6	1356.3	875.6	454.7	226.6	136.0	83.6	54.6	45.0
57.5°	1760.9	1753.8	1685.4	1428.4	916.1	465.5	223.3	125.6	72.1	50.2	42.7
59°	1780.5	1768.7	1675.4	1440.6	926.9	460.3	221.4	115.5	66.1	47.9	41.6
60°	1778.7	1764.2	1659.4	1432.8	929.8	454.0	218.4	109.6	62.8	46.8	41.2
62.5°	1740.4	1717.8	1568.8	1338.5	888.2	422.4	206.2	95.5	58.3	45.3	39.0
65°	1653.5	1621.6	1416.5	1154.2	792.8	359.6	178.3	90.3	59.4	44.6	37.5
67.5°	1503.4	1477.8	1220.7	955.1	631.9	290.5	154.2	88.0	60.9	45.3	35.3
70°	1222.9	1201.0	952.5	715.1	473.3	231.1	140.1	86.9	59.8	43.5	33.4
72.5°	862.6	824.7	633.0	500.8	300.2	185.7	121.5	82.1	58.3	42.0	30.5
75°	524.9	532.0	402.3	364.8	189.5	127.4	95.5	69.1	51.6	37.5	27.5
77.5°	346.2	345.9	296.8	257.4	96.2	79.1	67.6	53.1	40.5	30.8	23.8
80°	234.8	237.4	215.5	175.7	53.5	47.6	44.2	38.6	29.7	23.4	19.7
82.5°	144.5	144.9	166.8	131.5	35.7	30.1	28.2	26.0	21.2	18.2	15.2
85°	50.2	51.3	58.3	92.9	24.1	19.7	19.7	18.2	16.0	12.3	10.0
87.5°	21.5	21.2	25.3	25.3	11.9	10.0	9.3	9.3	8.9	6.7	5.6
90°	1.5	1.1	1.1	1.5	1.9	2.6	2.2	2.6	2.6	2.2	1.5
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	10°	15°	20°	25°	30°	35°	40°	45°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	729.2	729.2	729.2	729.2	729.2	729.2	729.2	729.2	729.2	729.2	729.2
2.5°	666.1	662.0	650.5	647.5	651.2	643.8	641.9	640.1	626.3	633.4	625.2
5°	556.9	555.7	532.3	537.2	532.3	524.2	520.8	528.6	514.9	517.9	519.7
7.5°	428.0	423.5	407.9	397.5	391.2	385.6	378.5	367.0	375.9	374.1	388.2
10°	347.3	337.7	328.0	313.5	305.4	297.6	289.4	284.9	274.5	273.4	268.6
12.5°	318.4	304.6	292.4	279.7	271.2	255.6	242.6	234.4	227.7	217.3	209.5
15°	279.7	268.2	252.2	240.0	226.6	212.5	199.9	189.5	184.6	175.0	170.5
17.5°	240.7	223.3	203.9	191.7	173.1	158.6	148.2	141.5	134.5	128.5	123.3
20°	193.9	171.3	150.5	134.9	120.4	106.2	101.4	93.2	90.3	88.0	89.9
22.5°	147.5	124.1	102.5	90.6	82.8	79.1	75.0	73.6	72.4	72.1	72.8
25°	108.1	88.4	78.0	73.6	70.6	68.4	66.9	65.8	65.0	64.6	65.0
27.5°	83.6	73.2	68.0	65.0	62.8	61.3	60.6	59.4	59.1	58.7	59.1
30°	72.4	66.9	63.2	60.2	57.6	55.0	53.9	53.5	53.9	54.2	53.9
32.5°	63.2	59.1	55.0	52.4	50.5	49.0	49.0	48.3	48.3	49.4	49.8
35°	57.2	53.1	50.2	46.8	44.6	43.1	42.0	41.2	41.6	41.6	42.7
37.5°	52.4	49.4	46.8	43.8	41.6	40.1	39.4	38.6	38.3	37.9	37.9
40°	49.0	47.2	45.0	42.0	39.7	38.3	37.5	36.8	36.4	36.0	36.0
42.5°	49.0	45.3	43.8	41.2	38.6	37.1	36.0	35.3	34.5	34.5	34.5
45°	53.9	46.4	43.8	40.9	38.3	36.4	35.3	34.2	33.4	33.4	33.1
47.5°	52.4	52.0	44.6	40.9	38.6	36.4	34.9	33.8	33.1	32.7	32.3
50°	49.8	54.2	49.8	42.0	38.6	36.0	34.5	33.4	32.3	31.9	31.9
52.5°	48.3	50.5	51.6	43.5	39.0	36.0	34.2	33.1	32.3	31.6	31.2
55°	44.6	47.6	49.4	42.7	39.0	35.3	33.4	32.3	31.2	30.8	30.5
57.5°	40.9	43.1	47.6	42.7	37.9	34.9	32.7	31.2	30.5	30.1	29.7
59°	39.7	39.7	42.3	43.8	37.1	34.5	32.3	30.8	30.1	29.7	29.0
60°	38.6	38.6	40.1	45.0	36.8	34.2	31.9	30.5	29.3	29.3	29.0
62.5°	37.1	36.0	36.8	42.0	35.7	33.4	31.2	29.7	28.6	28.6	28.2
65°	35.3	33.8	33.8	34.9	33.4	31.9	30.5	29.0	27.5	27.5	27.9
67.5°	33.4	31.9	31.6	31.6	30.8	30.5	29.0	27.5	26.7	26.7	26.7
70°	30.8	29.7	29.3	28.6	28.6	28.2	27.1	26.0	25.3	25.6	25.3
72.5°	27.9	27.1	26.4	26.4	26.0	25.6	24.5	23.8	23.4	23.8	23.8
75°	24.9	23.8	23.8	23.0	23.0	22.7	21.5	21.2	20.8	21.2	21.5
77.5°	21.2	20.4	20.1	20.1	20.1	20.1	18.6	18.2	18.2	18.9	18.9
80°	17.5	17.1	16.7	16.7	16.7	16.3	15.6	15.2	15.2	15.6	16.0
82.5°	13.4	12.6	12.6	13.0	13.4	13.4	12.3	11.5	11.5	12.3	13.0
85°	8.9	8.9	8.9	9.3	9.3	9.7	8.9	7.8	8.2	8.5	9.7
87.5°	4.8	5.2	4.8	4.5	5.2	4.8	4.8	4.5	4.8	5.2	5.6
90°	1.5	1.5	1.1	0.7	0.4	0.7	0.7	1.1	0.4	0.4	0.7
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P227316

CATALOG NUMBER: ISW-AF-450-LED-E1-SLR-8030

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P227316

CATALOG NUMBER: ISW-AF-450-LED-E1-SLR-8030

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	729.2	729.2	729.2	729.2	729.2	729.2	729.2	729.2	729.2	729.2	729.2
2.5°	632.6	626.3	623.0	636.0	634.9	623.7	623.7	631.5	631.9	625.2	633.0
5°	521.9	515.6	521.6	516.4	519.3	519.0	523.4	515.3	518.6	515.6	508.6
7.5°	387.1	399.7	406.4	397.9	408.6	414.2	406.4	414.2	402.0	391.9	401.6
10°	266.4	280.5	277.9	291.6	296.8	299.8	305.4	298.3	289.8	287.2	280.1
12.5°	206.5	203.6	202.5	208.0	211.4	206.5	210.6	206.2	201.7	193.9	193.5
15°	161.6	156.8	153.4	147.1	144.9	146.0	147.9	147.9	138.9	139.3	142.7
17.5°	122.6	121.5	118.9	113.7	110.3	111.4	111.1	109.2	108.1	108.8	112.9
20°	92.1	91.0	92.5	94.0	92.9	93.2	91.8	89.9	89.2	89.9	90.6
22.5°	72.8	74.3	76.2	78.4	78.8	80.6	80.2	80.6	79.1	78.4	76.5
25°	66.5	67.2	66.1	66.5	66.5	68.4	68.0	68.0	66.5	66.1	66.5
27.5°	58.7	58.3	58.3	59.1	59.1	60.2	60.9	60.2	58.7	58.3	58.7
30°	54.2	53.9	53.5	53.9	53.5	53.9	54.6	54.6	53.9	52.8	53.1
32.5°	49.8	49.8	49.4	49.8	49.4	49.4	50.2	49.0	49.0	48.7	48.7
35°	43.8	44.6	45.3	45.7	45.7	45.7	46.4	45.3	45.0	44.6	44.6
37.5°	37.9	38.6	40.9	42.0	42.3	43.1	43.5	42.7	42.0	41.2	40.5
40°	36.0	36.0	36.8	38.3	39.7	40.1	40.9	39.7	39.4	38.3	37.1
42.5°	34.5	34.9	34.9	35.3	35.7	36.4	37.5	36.4	35.7	34.9	33.8
45°	33.4	33.4	33.4	33.4	33.1	33.1	33.4	32.7	32.3	31.9	31.9
47.5°	32.7	32.3	31.9	31.6	31.2	30.8	30.8	30.1	30.1	30.1	30.1
50°	31.9	31.2	30.8	30.5	29.7	29.7	29.7	29.0	28.6	28.6	29.0
52.5°	30.8	30.5	30.1	29.7	29.3	29.0	29.0	28.2	27.9	27.9	27.9
55°	30.5	30.1	29.3	29.0	28.6	29.0	28.6	28.2	27.5	27.5	27.5
57.5°	29.3	29.7	29.3	28.6	28.6	28.6	28.6	27.9	27.5	26.7	27.1
59°	29.0	29.3	29.0	28.6	28.2	28.6	28.6	27.5	27.1	26.7	26.7
60°	28.6	29.0	28.6	28.2	28.2	28.6	28.2	27.9	27.1	26.0	26.4
62.5°	28.2	28.2	27.9	27.9	27.5	27.9	27.5	26.7	26.0	25.3	24.9
65°	27.5	27.5	27.1	27.1	26.7	26.7	26.7	26.0	25.3	24.5	24.5
67.5°	27.1	26.7	26.4	26.4	26.0	26.0	26.0	25.3	24.1	23.8	23.4
70°	25.6	25.3	25.3	24.9	24.5	24.9	25.3	24.1	23.0	22.3	21.9
72.5°	24.1	23.8	23.8	23.4	23.4	23.8	24.1	23.0	21.5	20.8	20.4
75°	21.9	21.5	21.5	21.5	21.5	22.3	22.3	21.2	20.1	18.9	18.2
77.5°	18.9	19.3	19.3	19.3	19.3	20.1	20.1	19.3	18.2	17.5	16.3
80°	16.3	16.3	16.7	16.7	17.1	17.1	16.7	16.3	16.0	15.2	13.7
82.5°	13.7	13.7	13.7	13.7	13.7	13.4	12.6	13.4	13.4	12.6	11.5
85°	10.8	10.8	10.8	11.1	11.1	10.0	8.9	8.9	10.0	9.7	8.9
87.5°	6.3	6.3	6.7	7.8	7.1	6.7	5.6	5.9	5.6	6.3	5.2
90°	1.5	1.1	1.1	0.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P227316
 CATALOG NUMBER: ISW-AF-450-LED-E1-SLR-8030

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59°
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°

NUMBER: P227316
 NUMBER: ISW-AF-450-LED-E1-SLR-8030

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):											CANDELA DISTRIBUTION	
160°	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°		160°
729.2	729.2	729.2	729.2	729.2	729.2	729.2	729.2	729.2	729.2	729.2	110°	0.0
633.8	635.2	638.6	637.5	649.7	646.0	654.6	666.1	676.9	671.7	673.1	112.5°	0.0
521.2	523.1	508.9	517.5	530.1	524.9	523.1	540.1	536.1	555.4	539.4	115°	0.0
386.0	381.5	374.8	371.5	362.2	362.2	379.7	387.5	386.3	399.7	413.5	117.5°	0.0
271.2	266.0	257.8	255.6	264.9	269.3	277.1	284.9	295.3	310.6	319.5	120°	0.0
199.1	197.3	199.1	204.7	213.2	219.6	231.4	245.2	256.7	269.0	280.8	122.5°	0.0
150.5	154.2	159.0	162.7	169.4	181.3	187.6	202.8	213.2	224.0	237.8	125°	0.0
117.0	119.2	120.4	121.8	127.4	136.0	136.0	151.6	165.3	179.4	190.9	127.5°	0.0
89.2	89.2	85.4	87.7	88.4	87.7	92.1	101.0	110.0	119.2	137.5	130°	0.0
74.7	72.4	71.3	71.0	71.3	72.8	75.4	78.8	80.2	84.3	91.4	132.5°	0.0
66.1	65.8	64.6	64.6	65.4	65.8	68.4	71.3	72.1	73.2	75.8	135°	0.0
58.3	59.1	60.2	59.8	60.2	60.9	62.8	65.4	66.9	67.2	69.1	137.5°	0.0
52.8	53.5	53.9	55.0	55.0	55.4	56.8	59.4	60.6	62.4	64.3	140°	0.0
49.0	49.4	49.8	49.4	49.8	49.8	51.6	54.2	55.7	56.8	58.0	142.5°	0.0
45.0	44.6	44.6	44.6	43.5	43.1	43.8	46.4	46.8	47.9	50.5	145°	0.0
40.1	39.0	38.3	38.3	38.3	38.6	40.5	43.1	43.5	44.6	46.8	147.5°	0.0
35.7	35.3	35.3	35.7	36.0	36.8	38.3	40.9	41.2	42.3	44.2	150°	0.0
33.4	33.4	33.4	33.8	34.2	34.5	36.4	39.0	39.7	40.9	43.1	152.5°	0.0
31.9	32.3	31.9	31.9	32.3	33.1	34.9	37.9	39.0	40.1	42.3	155°	0.0
30.8	30.8	30.8	31.2	31.2	31.9	34.2	37.1	37.9	39.4	42.7	157.5°	0.0
29.3	30.1	29.7	30.1	30.5	31.2	33.4	36.4	37.5	39.7	43.5	160°	0.0
28.6	28.6	28.6	29.0	29.7	30.1	31.9	35.3	36.8	39.7	45.7	162.5°	0.0
28.2	27.5	27.5	27.9	28.6	29.3	31.2	34.5	36.4	39.4	45.3	165°	0.0
27.9	26.7	26.4	26.7	27.5	27.9	30.1	33.4	36.0	38.3	43.8	167.5°	0.0
26.7	26.0	25.6	26.0	26.7	27.5	29.3	32.7	34.5	37.5	42.0	170°	0.0
26.4	25.3	25.3	25.6	26.4	26.7	28.6	31.9	33.8	37.9	43.1	172.5°	0.0
24.9	24.5	24.5	24.9	24.9	25.6	27.9	31.2	32.7	38.6	36.0	175°	0.0
23.8	23.8	23.8	23.8	24.1	24.5	27.1	30.5	31.2	33.4	30.8	177.5°	0.0
23.0	23.0	23.0	23.0	23.0	23.8	26.0	29.3	29.7	29.3	28.2	180°	0.0
21.5	21.5	21.5	21.5	21.9	22.3	24.5	27.5	27.5	26.7	26.7		
20.4	20.1	20.1	20.1	20.1	20.4	22.7	25.6	25.3	24.9	24.9		
18.2	18.2	18.2	18.2	18.2	18.2	20.4	23.4	23.0	22.7	22.3		
16.0	16.0	16.3	16.0	15.6	15.2	17.5	20.8	20.8	20.4	20.1		
13.7	13.4	13.7	13.4	12.6	12.6	14.5	17.5	17.8	17.5	16.7		
11.1	10.8	10.8	10.8	9.3	9.3	11.1	14.1	14.1	13.7	13.0		
8.5	8.2	7.8	7.4	6.3	6.3	7.8	10.4	10.8	9.3	8.9		
4.5	4.5	4.5	3.3	3.0	2.6	4.1	6.3	6.3	5.2	4.5		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

'227316
 ISW-AF-450-LED-E1-SLR-8030

REPORT NUMBER: P227316
 CATALOG NUMBER: ISW-AF-4!

TION (continued):

CANDELA DISTRIBUTION (con

165°	170°	175°	180°	185°	190°	195°	200°	205°	210°		215°	220°
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0°	729.2	729.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°	682.4	685.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°	551.3	564.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°	416.8	434.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°	334.0	345.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°	293.1	310.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°	251.5	270.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°	206.2	228.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°	157.5	179.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°	110.7	129.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°	80.6	89.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°	71.7	75.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°	67.2	69.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°	60.6	62.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°	53.1	56.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°	49.4	51.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°	47.2	47.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°	45.3	45.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°	44.2	45.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°	45.0	49.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°	50.5	49.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°	51.6	46.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°	47.2	44.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°	42.3	38.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59°	37.9	35.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°	35.3	34.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°	32.3	33.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°	30.1	31.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°	29.0	30.1
										70°	27.1	27.9
										72.5°	25.3	25.6
										75°	22.7	23.0
										77.5°	20.1	20.1
										80°	16.3	16.3
										82.5°	12.6	12.3
										85°	8.2	7.8
										87.5°	3.7	3.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	0.0	0.0
										97.5°	0.0	0.0
										100°	0.0	0.0
										102.5°	0.0	0.0
										105°	0.0	0.0
										107.5°	0.0	0.0

REPORT NUMBER: P227316

CATALOG NUMBER: ISW-AF-450-LED-E1-

50-LED-E1-SLR-8030

tinued):

CANDELA DISTRIBUTION (continued):

225°	230°	235°	240°	245°	250°	255°	260°	265°		215°	220°	225°
729.2	729.2	729.2	729.2	729.2	729.2	729.2	729.2	729.2	110°	0.0	0.0	0.0
702.5	712.9	721.1	719.6	737.0	747.4	748.9	759.7	770.1	112.5°	0.0	0.0	0.0
574.7	589.2	603.3	613.7	641.2	663.9	681.3	699.9	721.8	115°	0.0	0.0	0.0
458.0	470.3	493.3	510.1	539.0	565.4	591.0	620.4	645.3	117.5°	0.0	0.0	0.0
358.9	374.5	396.0	427.2	453.2	483.3	515.6	543.5	585.1	120°	0.0	0.0	0.0
322.5	332.1	349.9	364.8	397.1	429.1	465.5	503.7	542.0	122.5°	0.0	0.0	0.0
284.9	302.0	318.7	340.3	368.5	403.4	442.8	484.1	527.1	125°	0.0	0.0	0.0
248.5	271.2	289.4	312.8	344.4	388.6	439.8	491.1	541.6	127.5°	0.0	0.0	0.0
203.9	225.1	257.1	280.8	322.1	377.4	443.2	514.1	582.5	130°	0.0	0.0	0.0
160.5	183.1	219.6	254.8	300.2	371.5	456.6	552.0	643.4	132.5°	0.0	0.0	0.0
114.8	145.6	181.7	226.2	281.2	367.8	474.8	598.8	721.8	135°	0.0	0.0	0.0
85.8	107.4	151.2	199.9	260.0	361.1	494.1	642.3	775.3	137.5°	0.0	0.0	0.0
76.5	91.8	120.4	171.6	234.0	348.1	508.6	683.5	824.0	140°	0.0	0.0	0.0
66.9	78.8	101.4	144.9	210.6	328.0	514.9	705.5	857.8	142.5°	0.0	0.0	0.0
58.7	69.8	92.9	134.5	198.7	305.4	513.8	727.4	900.1	145°	0.0	0.0	0.0
53.5	63.2	89.2	131.9	189.5	284.6	514.9	762.7	962.9	147.5°	0.0	0.0	0.0
49.4	60.6	86.2	126.3	185.0	273.0	519.3	793.9	1016.8	150°	0.0	0.0	0.0
49.4	59.8	78.8	118.5	182.8	274.2	521.2	818.0	1056.9	152.5°	0.0	0.0	0.0
52.0	56.1	73.2	114.0	184.3	282.3	519.0	842.5	1095.9	155°	0.0	0.0	0.0
49.4	52.4	69.5	113.3	184.3	288.3	525.7	873.0	1147.2	157.5°	0.0	0.0	0.0
46.8	48.7	68.4	112.2	180.5	293.8	553.1	929.8	1214.0	160°	0.0	0.0	0.0
43.5	45.7	66.9	110.3	176.5	300.9	601.8	1025.3	1324.7	162.5°	0.0	0.0	0.0
39.4	43.8	64.6	107.4	173.9	313.5	651.6	1121.9	1456.6	165°	0.0	0.0	0.0
37.9	42.0	59.4	100.3	171.3	327.3	704.7	1214.4	1575.1	167.5°	0.0	0.0	0.0
36.8	40.5	55.0	95.1	169.0	334.0	720.7	1249.7	1620.8	170°	0.0	0.0	0.0
36.0	39.7	52.4	90.6	166.4	334.3	732.2	1263.1	1627.5	172.5°	0.0	0.0	0.0
34.9	38.3	47.2	81.4	158.3	334.0	733.3	1271.6	1608.2	175°	0.0	0.0	0.0
33.1	36.8	47.6	76.5	143.4	318.4	687.3	1230.4	1531.3	177.5°	0.0	0.0	0.0
31.6	35.7	50.2	77.6	127.8	278.2	601.1	1102.2	1366.7	180°	0.0	0.0	0.0
29.3	34.9	52.4	80.2	123.3	231.1	454.7	900.1	1144.6				
27.1	34.5	54.2	82.1	118.5	190.2	315.0	638.2	856.7				
24.5	31.6	49.4	69.8	98.1	138.2	202.8	417.6	590.7				
21.2	25.3	36.0	49.0	72.1	96.6	120.0	252.2	386.3				
17.5	18.9	25.6	31.6	47.9	57.2	66.5	142.3	270.1				
13.0	13.4	17.5	20.1	27.1	31.6	39.7	87.3	218.8				
7.4	8.5	11.9	13.4	16.3	20.1	26.0	55.7	171.6				
3.0	3.7	7.1	7.8	8.9	11.1	14.5	32.3	53.5				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				



REPORT NUMBER: P227316

CATALOG NUMBER: ISW-AF-450-LED-E1-SLR-8030

SLR-8030

CANDELA DISTRIBUTION (continued):

230°	235°	240°	245°	250°	255°	260°	265°		270°	275°	280°	285°
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0°	729.2	729.2	729.2	729.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°	780.5	788.3	795.0	800.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°	745.2	763.4	785.3	803.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°	682.4	705.5	741.1	763.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°	623.0	656.8	695.8	727.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°	582.5	624.5	661.6	696.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°	571.4	614.1	647.5	679.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°	593.6	636.4	665.0	684.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°	646.0	691.7	709.9	708.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°	717.7	765.6	765.6	750.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°	812.4	847.0	828.1	799.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°	879.7	912.0	878.9	832.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°	935.4	959.2	917.2	861.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°	984.4	1001.9	946.6	891.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°	1043.1	1049.5	977.0	918.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°	1108.2	1113.4	1020.9	947.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°	1184.7	1166.1	1053.2	974.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°	1231.9	1201.4	1076.6	988.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°	1269.0	1227.4	1087.3	996.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°	1314.7	1265.7	1106.3	1011.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°	1374.9	1318.8	1154.2	1053.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°	1498.2	1428.7	1240.4	1126.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°	1640.1	1574.4	1378.2	1247.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°	1753.8	1709.6	1501.2	1356.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59°	1795.8	1776.8	1588.1	1449.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°	1811.4	1827.7	1634.2	1505.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°	1822.2	1893.1	1783.9	1674.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°	1799.9	1903.9	1844.4	1777.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°	1702.9	1827.4	1815.8	1756.8
								70°	1504.5	1643.1	1683.2	1599.3
								72.5°	1131.9	1303.9	1522.7	1391.2
								75°	737.4	896.4	1300.2	1191.7
								77.5°	461.8	559.5	927.6	834.7
								80°	307.2	359.6	588.8	536.1
								82.5°	231.1	254.8	404.9	380.8
								85°	121.8	155.3	315.0	399.4
								87.5°	45.7	50.9	237.0	357.0
								90°	0.0	0.0	0.4	0.0
								92.5°	0.0	0.0	0.0	0.0
								95°	0.0	0.0	0.0	0.0
								97.5°	0.0	0.0	0.0	0.0
								100°	0.0	0.0	0.0	0.0
								102.5°	0.0	0.0	0.0	0.0
								105°	0.0	0.0	0.0	0.0
								107.5°	0.0	0.0	0.0	0.0



REPORT NUMBER: P227316

CATALOG NUMBER: ISW-AF-450-LED-E1-SLR-8030

CANDELA DISTRIBUTION (continued):

290°	295°	300°	305°	310°	315°	320°		270°	275°	280°	285°	290°
729.2	729.2	729.2	729.2	729.2	729.2	729.2	110°	0.0	0.0	0.0	0.0	0.0
804.6	811.3	815.4	812.4	817.3	818.4	813.2	112.5°	0.0	0.0	0.0	0.0	0.0
819.5	838.1	851.5	860.7	864.5	867.8	866.3	115°	0.0	0.0	0.0	0.0	0.0
792.0	820.6	845.5	862.6	868.5	873.0	868.9	117.5°	0.0	0.0	0.0	0.0	0.0
761.6	791.3	814.7	831.8	831.4	835.9	828.1	120°	0.0	0.0	0.0	0.0	0.0
732.9	761.9	782.7	782.0	776.8	763.8	761.6	122.5°	0.0	0.0	0.0	0.0	0.0
710.3	725.5	730.7	729.6	714.7	707.3	706.2	125°	0.0	0.0	0.0	0.0	0.0
699.1	698.4	686.5	673.5	659.4	658.7	649.0	127.5°	0.0	0.0	0.0	0.0	0.0
701.0	676.9	654.9	632.6	617.4	614.1	615.2	130°	0.0	0.0	0.0	0.0	0.0
724.4	681.7	640.4	617.8	600.0	594.8	597.0	132.5°	0.0	0.0	0.0	0.0	0.0
753.8	696.5	645.3	610.7	596.2	589.9	591.0	135°	0.0	0.0	0.0	0.0	0.0
773.4	713.6	661.3	618.5	598.8	592.9	596.6	137.5°	0.0	0.0	0.0	0.0	0.0
798.7	737.0	682.8	638.6	609.2	601.4	604.0	140°	0.0	0.0	0.0	0.0	0.0
823.6	762.3	713.3	663.1	627.4	613.0	617.0	142.5°	0.0	0.0	0.0	0.0	0.0
850.3	791.6	742.2	696.5	654.6	631.9	637.1	145°	0.0	0.0	0.0	0.0	0.0
881.5	825.8	783.5	741.5	698.4	679.5	681.7	147.5°	0.0	0.0	0.0	0.0	0.0
911.6	859.3	832.1	800.9	775.7	746.7	746.7	150°	0.0	0.0	0.0	0.0	0.0
929.5	902.7	895.3	886.4	871.5	850.7	846.3	152.5°	0.0	0.0	0.0	0.0	0.0
951.4	954.4	971.4	989.3	993.7	973.3	967.0	155°	0.0	0.0	0.0	0.0	0.0
992.6	1023.8	1079.9	1128.6	1138.2	1155.0	1135.6	157.5°	0.0	0.0	0.0	0.0	0.0
1050.6	1108.2	1202.9	1282.4	1305.0	1306.5	1308.0	160°	0.0	0.0	0.0	0.0	0.0
1116.7	1199.2	1324.4	1419.1	1459.6	1470.4	1462.6	162.5°	0.0	0.0	0.0	0.0	0.0
1230.0	1304.7	1441.8	1543.9	1595.9	1621.2	1614.5	165°	0.0	0.0	0.0	0.0	0.0
1342.2	1435.1	1555.8	1656.5	1711.8	1740.1	1746.0	167.5°	0.0	0.0	0.0	0.0	0.0
1418.7	1505.6	1617.1	1710.0	1764.6	1798.4	1801.4	170°	0.0	0.0	0.0	0.0	0.0
1465.5	1545.0	1653.9	1735.6	1790.2	1818.8	1829.2	172.5°	0.0	0.0	0.0	0.0	0.0
1607.4	1621.9	1696.2	1750.1	1788.4	1801.4	1809.2	175°	0.0	0.0	0.0	0.0	0.0
1673.9	1613.4	1604.8	1638.3	1641.6	1633.1	1622.3	177.5°	0.0	0.0	0.0	0.0	0.0
1581.4	1439.9	1387.5	1383.1	1369.3	1363.7	1329.6	180°	0.0	0.0	0.0	0.0	0.0
1373.4	1169.4	1076.9	1026.8	1057.3	1056.1	1021.2						
1157.2	949.5	829.5	757.5	748.6	747.1	716.6						
939.9	745.2	640.1	605.2	563.2	550.5	555.7						
677.6	532.0	509.7	536.4	539.8	530.1	523.4						
426.8	400.1	421.6	470.3	498.9	486.3	491.1						
355.9	315.0	316.5	367.8	387.1	390.1	380.0						
394.9	315.4	258.6	252.2	245.6	154.5	215.1						
355.9	244.1	143.8	118.5	72.8	42.0	43.5						
0.0	0.0	0.0	0.0	0.0	0.0	0.0						
0.0	0.0	0.0	0.0	0.0	0.0	0.0						
0.0	0.0	0.0	0.0	0.0	0.0	0.0						
0.0	0.0	0.0	0.0	0.0	0.0	0.0						
0.0	0.0	0.0	0.0	0.0	0.0	0.0						
0.0	0.0	0.0	0.0	0.0	0.0	0.0						
0.0	0.0	0.0	0.0	0.0	0.0	0.0						
0.0	0.0	0.0	0.0	0.0	0.0	0.0						
0.0	0.0	0.0	0.0	0.0	0.0	0.0						
0.0	0.0	0.0	0.0	0.0	0.0	0.0						



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CANDELA DISTRIBUTION (continued):

295°	300°	305°	310°	315°	320°		325°	330°	335°	340°	345°	350°
0.0	0.0	0.0	0.0	0.0	0.0	0°	729.2	729.2	729.2	729.2	729.2	729.2
0.0	0.0	0.0	0.0	0.0	0.0	2.5°	812.1	805.0	797.2	786.8	788.7	776.0
0.0	0.0	0.0	0.0	0.0	0.0	5°	854.8	842.5	825.8	804.6	785.0	759.7
0.0	0.0	0.0	0.0	0.0	0.0	7.5°	850.3	830.7	802.8	770.8	744.8	708.4
0.0	0.0	0.0	0.0	0.0	0.0	10°	812.1	786.4	763.8	730.7	696.9	665.0
0.0	0.0	0.0	0.0	0.0	0.0	12.5°	758.6	744.1	724.4	699.5	666.8	634.1
0.0	0.0	0.0	0.0	0.0	0.0	15°	700.3	701.4	689.5	682.8	666.5	640.4
0.0	0.0	0.0	0.0	0.0	0.0	17.5°	652.3	663.5	669.8	680.2	682.1	669.4
0.0	0.0	0.0	0.0	0.0	0.0	20°	620.4	636.0	655.7	684.3	714.4	727.4
0.0	0.0	0.0	0.0	0.0	0.0	22.5°	602.6	621.9	653.4	705.5	760.4	793.5
0.0	0.0	0.0	0.0	0.0	0.0	25°	599.2	624.8	669.1	732.6	803.9	850.3
0.0	0.0	0.0	0.0	0.0	0.0	27.5°	604.8	638.2	690.6	763.0	833.3	900.5
0.0	0.0	0.0	0.0	0.0	0.0	30°	622.6	661.6	718.8	796.8	869.7	936.5
0.0	0.0	0.0	0.0	0.0	0.0	32.5°	639.7	688.0	751.2	827.3	900.5	967.0
0.0	0.0	0.0	0.0	0.0	0.0	35°	667.2	715.9	780.5	850.7	921.7	997.1
0.0	0.0	0.0	0.0	0.0	0.0	37.5°	709.2	751.9	803.5	868.9	942.8	1020.9
0.0	0.0	0.0	0.0	0.0	0.0	40°	769.0	797.2	830.7	882.3	953.2	1036.8
0.0	0.0	0.0	0.0	0.0	0.0	42.5°	858.5	864.5	876.0	902.7	962.5	1055.4
0.0	0.0	0.0	0.0	0.0	0.0	45°	974.0	956.2	946.2	942.5	983.3	1067.3
0.0	0.0	0.0	0.0	0.0	0.0	47.5°	1108.2	1073.2	1033.1	1013.8	1023.5	1086.2
0.0	0.0	0.0	0.0	0.0	0.0	50°	1282.8	1225.9	1147.2	1091.4	1086.6	1142.0
0.0	0.0	0.0	0.0	0.0	0.0	52.5°	1442.9	1368.6	1269.4	1203.6	1176.9	1246.0
0.0	0.0	0.0	0.0	0.0	0.0	55°	1594.1	1536.9	1424.7	1342.9	1333.6	1383.8
0.0	0.0	0.0	0.0	0.0	0.0	57.5°	1726.7	1677.3	1585.5	1478.9	1482.6	1531.3
0.0	0.0	0.0	0.0	0.0	0.0	59°	1795.4	1754.2	1669.1	1560.6	1568.8	1635.7
0.0	0.0	0.0	0.0	0.0	0.0	60°	1819.9	1785.4	1704.4	1613.0	1623.4	1692.9
0.0	0.0	0.0	0.0	0.0	0.0	62.5°	1818.1	1795.8	1737.1	1694.0	1747.1	1798.0
0.0	0.0	0.0	0.0	0.0	0.0	65°	1644.6	1610.8	1604.1	1679.5	1782.0	1831.1
0.0	0.0	0.0	0.0	0.0	0.0	67.5°	1308.0	1324.0	1387.5	1517.2	1689.2	1760.5
						70°	971.4	999.7	1084.4	1247.1	1483.4	1606.7
						72.5°	714.4	742.6	820.6	998.9	1220.3	1329.6
						75°	560.6	569.1	625.2	765.3	961.8	1051.3
						77.5°	517.9	492.2	469.2	544.2	648.6	725.5
						80°	482.2	433.5	379.3	402.0	427.2	508.9
						82.5°	374.5	342.1	299.8	328.8	340.7	343.3
						85°	219.2	195.0	247.0	349.9	346.2	303.1
						87.5°	77.3	100.3	112.9	193.9	234.4	202.8
						90°	0.0	1.1	3.3	3.7	5.6	1.9
						92.5°	0.0	0.0	0.0	0.0	0.0	0.0
						95°	0.0	0.0	0.0	0.0	0.0	0.0
						97.5°	0.0	0.0	0.0	0.0	0.0	0.0
						100°	0.0	0.0	0.0	0.0	0.0	0.0
						102.5°	0.0	0.0	0.0	0.0	0.0	0.0
						105°	0.0	0.0	0.0	0.0	0.0	0.0
						107.5°	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: ISW-AF-450-LED-E1-SLR-8030

CANDELA DISTRIBUTION (continued):

355°	359°	360°		325°	330°	335°	340°	345°	350°	355°
729.2	729.2	729.2	110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
766.0	755.6	754.9	112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
739.6	716.2	708.8	115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
676.9	649.7	644.2	117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
624.1	594.0	588.8	120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
597.0	568.4	562.1	122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
607.4	575.8	572.5	125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
646.4	613.0	614.4	127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
713.3	691.7	686.5	130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
800.9	777.5	770.8	132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
875.6	863.7	859.3	135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
929.5	935.0	930.6	137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
972.6	991.1	988.9	140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1016.8	1052.8	1054.3	142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1049.5	1113.0	1126.0	145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1091.4	1176.5	1189.9	147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1123.4	1223.3	1239.7	150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1154.6	1261.9	1279.8	152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1180.2	1300.2	1318.4	155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1209.2	1337.4	1355.2	157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1261.2	1395.7	1416.9	160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1373.0	1503.8	1533.9	162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1534.6	1653.1	1676.9	165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1680.2	1754.5	1760.9	167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1740.1	1782.4	1780.5	170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1783.9	1789.1	1778.7	172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1807.7	1758.3	1740.4	175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1745.6	1676.9	1653.5	177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1566.6	1530.2	1503.4	180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1332.5	1240.4	1222.9								
1010.1	888.6	862.6								
705.8	560.2	524.9								
464.0	359.6	346.2								
300.9	238.9	234.8								
209.9	156.8	144.5								
128.9	52.4	50.2								
40.1	24.1	21.5								
1.1	1.5	1.5								
0.0	0.0	0.0								
0.0	0.0	0.0								
0.0	0.0	0.0								
0.0	0.0	0.0								
0.0	0.0	0.0								
0.0	0.0	0.0								
0.0	0.0	0.0								
0.0	0.0	0.0								
0.0	0.0	0.0								

